

ECS/EMD Configuration Change Request

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1. Originator Henry Baez	2. Log Date: 09/21/04	3. CCR #: 04-0481	4. Rev: —	5. Tel: 301-925-1025	6. Rm #: 3108G	7. Org. COTS HW
8. CCR Title: Install IBM IY48720 Patch on PVC and VATC firewalls.						
9. Originator Signature/Date Henry Baez /s/ 9/20/04			10. Class II	11. Type: CCR	12. Need Date: 9/23/2004	
13. CCR Sponsor Signature/Date Pamela Johnson /s/ 09/20/04			14. Category of Change: Initial ECS Baseline Doc.		15. Priority: (If "Emergency" fill in Block 27). Emergency	
16. Documentation/Drawings Impacted (Review and submit checklist): N/A			17. Schedule Impact:		18. CI(s) Affected:	
19. Release Affected by this Change: N/A		20. Date due to Customer:		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: ECSed41219						
23. Problem: (use additional Sheets if necessary) After the firewall AIX 5.1 upgrade, it was notice at GDAAC and LPDAAC that errors where getting report on the firewall. The IBM error reporting program, errpt, is reporting "TRANSMIT FAILURE". In turn the CISCO switch is showing intermittent link dropouts.						
24. Proposed Solution: (use additional sheets if necessary) IBM reports a timing issue with 5.1. IBM however say it show not stop or crash the AIX OS. IBM has put out a fix, IY48720, for the GE interface model 14100401 that is install on the firewalls. This could be a load related issue as other upgraded sites with GE have not shown these errors, but it is highly recommended all firewall with GE install the fix. Will load and test first in VATC and after a couple of days in PVC. If new driver does not affect any flows, will release to install in all DAAC firewall. The SMC does not have any GE interfaces.						
25. Alternate Solution: (use additional sheets if necessary) None.						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) Firewall GE transmits failure and Cisco switch link dropout may impact DAAC network throughput.						
27. Justification for Emergency (If Block 15 is "Emergency"): IBM says this should not cause a crash or stoppage. But this should be fixed as soon as possible in case program's loads which is very high produce a crash or impacts flows.						
28. Site(s) Affected: <input type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input type="checkbox"/> EDC <input type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. SCDV CCB Chair (Sign/Date): Byron V. Peters /s/ 9/21/04			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
33. EDF CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			

ADDITIONAL SHEET

CCR #: 04-0481 **Rev:** — **Originator:** Henry Baez

Telephone: 301-925-1025 **Office:** 3108G

Title of Change: Install IBM IY48720 Patch on PVC and VATC firewalls. .

For VATC and PVC firewall:

Create a new directory under /tmp. Call it '/tmp/fixes/GENic'. Change directory to /tmp/fixes/GENic.

```
#mkdir /tmp/fixes/GENic <enter>
```

```
#cd /tmp/fixes/GENic <enter>
```

FTP the file 'devices.pci.14100401.rte.5.1.10.53.bff'. Now check that the file is good with the AIX command cksum as follows:

```
# cksum devices.pci.14100401.rte.5.1.0.53.bff
```

The results are shown below:

```
3047753706 568320 devices.pci.14100401.rte.5.1.0.53.bff
```

Now type the following command:

```
#inutoc . <enter>
```

This will build the '.toc' file the installation program needs. Start the SMIT program with the following command:

```
#smit <enter>
```

The first menu heading will read:

Software Installation and Maintenance

Click on the box labeled as follows:

Install and Upgrade Software

Click on the box labeled as follows:

Install and Update from LATEST Available Software

A new menu will pop up. It will display the message/question "INPUT device / directory". Write in the directory path '/tmp/fixes/Genic' where the files are located. Click on 'OK' button.

Next menu will pop up. Take all the defaults. Click on 'OK' button to continue.

A new dialog box will display 'Are You Sure', click on 'OK' button to start installing the file sets. Estimated installation time is less than 2 minutes. You will have to reboot the firewall.